


FEMCard analysis result

20.10.15

Project data	
Projectname	foam_nominal_measurement_data
Folder	F:\tmp_del\Demo_Projects\A_isotropic_material\C_hyperelastic\compressible
Created at	07.06.2015
Maker	Parsolve GmbH
Comment	Synthetic measurement data
Material model	ISOTR LARGE strain OGDEN HYPERelasticity, N=2, MEAS=nom.

Test informations

Test 1

Color	
Number	1
Name	foam_Uniax_sig_nom_xx_NE_xx_NE_yy
Folder	F:\tmp_del\Demo_Projects\A_isotropic_material\C_hyperelastic\compressible\foam_Uniax_sig_nom_xx_
Load type	Isotropic static LARGE strain UNIAXIAL axial nominal stress vs. axial and transverse nom
Weight T	1

Tests weight TR

Test 1		
Start	End	Value
0	17	6.86
18	36	2
37	54	1.47
55	72	1.23
73	91	1.04
92	109	1

Tests weight SD

Test 1	
Strain direction	Value
NE_exp^xx	1
NE_exp^yy	7.06

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Model parameter					
Parameter	Fix	Lower limit	Upper limit	Start value	Result
mu1		0.1	10	5	3.18699
alpha1		0.1	10	1	0.7506972
mu2		0.001	10	5	0.08264997
alpha2		0.1	10	1.3	8.407979
D1		1e-08	2	0.001	0.3199115
D2		1e-08	1	0.001	0.5044824

Processing parameter	
Max. number of steps	200
LM start value	0.1
Max. error sum of squares	0.1

Processing results	
Steps	11
Least squares sum	0.0270804

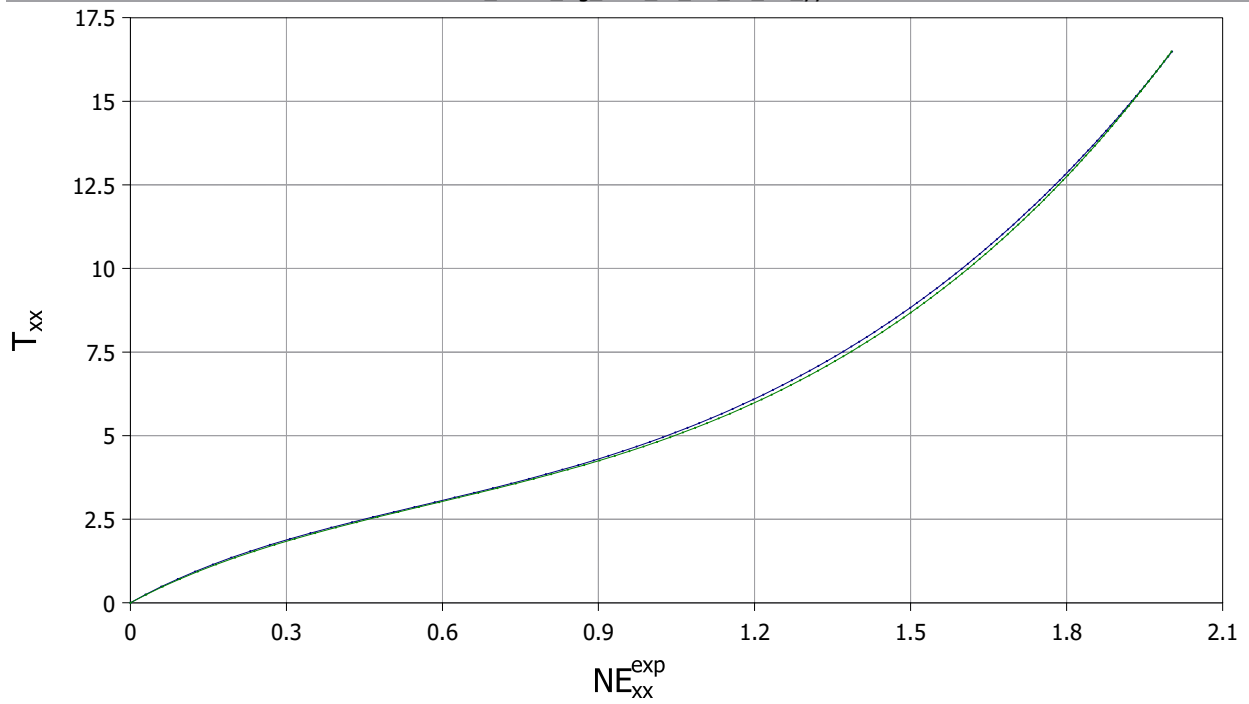
Correlation matrix						
	mu1	alpha1	mu2	alpha2	D1	D2
mu1	1	-0.853	0.65	-0.619	-0.21	0.181
alpha1	-0.853	1	-0.939	0.921	0.0837	-0.0648
mu2	0.65	-0.939	1	-0.998	-0.0627	0.0404
alpha2	-0.619	0.921	-0.998	1	0.0643	-0.0424
D1	-0.21	0.0837	-0.0627	0.0643	1	-0.874
D2	0.181	-0.0648	0.0404	-0.0424	-0.874	1

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Verification

foam_Uniax_sig_nom_xx_NE_xx_NE_yy



foam_Uniax_sig_nom_xx_NE_xx_NE_yy

